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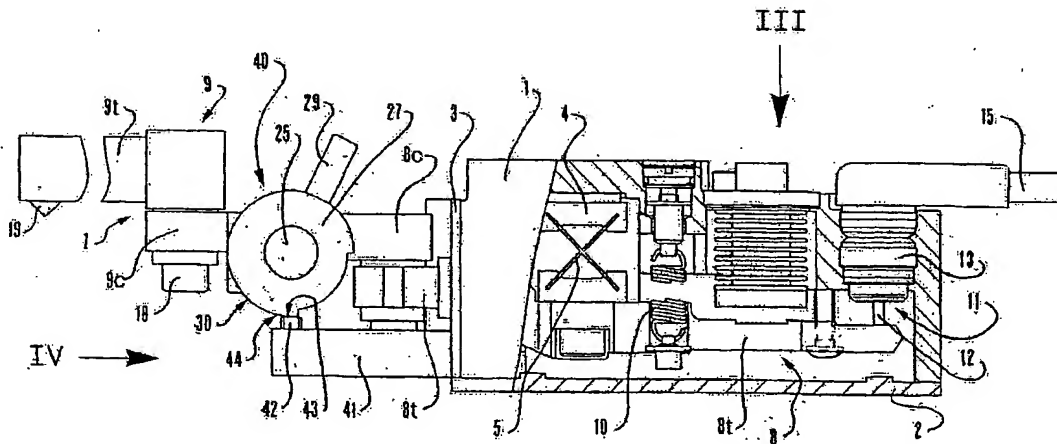
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(54) Title: **HEAD FOR THE LINEAR DIMENSION CHECKING OF MECHANICAL PIECES**



(57) Abstract: A gauging head includes a substantially closed casing, a movable arm with a first portion, partly located inside the casing and associated with a position transducer, and a second portion, outside the casing, carrying a feeler for contacting a piece to be checked, and a zero-setting mechanism for adapting the head to check pieces with different nominal dimensions. The zero-setting mechanism, located outside the casing, includes a quick locking/unlocking device between the first and second portions of the arm and a movable mechanical reference coupled with the first portion of the arm and including a reference surface cooperating with a corresponding reference surface for holding the first portion of the arm in a preset position with respect to the casing. The quick locking/unlocking device and the movable mechanical reference are operated together for unlocking the coupling between the portions of the arm and concurrently hold the preset position, and for locking together the two portions and concurrently release the arm.



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